HEDSIALES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OD DEDMIT TO DOUL DEEDE

torneny 9-331c)		, <b></b>						
	DEPART	MENT OF T	HE INTERIC	DR .		5. LEASE DESIGNATIO	ON AND SERIAL NO.	
	BUREA	AU OF LAND MA	ANAGEMENT			UTU	I-77526	
APPLICATION	ON FOR PER	MIT TO DR	ILL, DEEP	EN, OR PLU	<b>IG BACK</b>	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
1a TYPE OF WORK						na		
DRILL	. X	DEEPEN [		PLUG BACK		7. UNIT AGREEMENT I	NAME	_
* -	AS X	OTHER	ZONE	MULTIPLE ZONE	x	8. FARM OR LEASE NA <b>na</b>	AME	_
2. NAME OF OPERATOR  The Hous	ton Exploration	n Company				9. WELL NO. North Horses	shoe 7-20-6-22	 ?
3. ADDRESS OF OPERATOR				2		10. FIELD OR LEASE N		_ 
4. LOCATION OF WELL (Re	port location clearly and in	accordance with any St	tate requirement)	40. 285579		11. Sec., T., R., M., OR		
at surface 2403' FI	NL & 2198' FEL	SWNE 630	53 <b>7x</b>	109.46	1100	AND SURVEY OR ARE	A	
At proposed prod. Zone	same as	above 446	03754	104. 46	8400	Sec. 20 T.6S,		
14. DISTANCE IN MILES AN			T OFFICE*			12. COUNTY OR PARI		
13.8 miles	south of Verna	I, UT				Uintah	Utah	
15. DISTANCE FROM PROP		PROP. OR LEASE	16. NO. OF ACRES IN	TEASE	TO THIS W	RES ASSIGNED		
LINE , FT. (Also to nearest de <b>2,198</b> °	ng. Onit line, it any)		360		10 11 110 11	40		
16. DISTANCE FROM PROP			19. PROPOSED DEP	тн	20. ROTARY O	R CABLE TOOLS		
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS		2,000'		10,500'	Rotar	у		
21. ELEVATION (SHOW WH	IETHER DF. RT, GR, etc.)					22. APPROX. DATE W		
5,132' 0	<u>SR</u>					1,01,2	2007	_
		PROPOSED CA	SING AND CEM	ENT PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO				Y OF CEMENT		
11"	8 5/8"	36#	2000	'	238 s	ks		_
	4.41011	44.04	T.D.		4 077	aka		

The operator requests permission to drill the subject well. Please find the attached 10 point plan and 13 point plan.

William A Ryan 290 S 800 E Vernal, UT 84078 435-789-0968

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposed in to deepen or plug back, give data on proposed productive zone and proposed new productive zone. If proposal is to drill or deepen directional, give pertinent data on subsurface location and measure and true vertical depths. Give blowout preventer program, if any **Agent** TITLE SIGNATURE PERMIT NO BRÄDLEY G. HILL **ENVIRONMENTAL MANAGER** DATE APPROVED BY CONDITIONS OF APPROV

\*See Instructions on Reverse Side

Title 18 U. S. C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

APR 1 9 2006

Federal Approval of this Action is Necessary

#### THE HOUSTON EXPLORATION COMPANY T6S, R22E, S.L.B.&M. Well location, NORTH HORSESHOE #7-20-6-22. located as shown in the SW 1/4 NE 1/4 of 1967 Brass Cap 1967 Brass Cap Section 20, T6S, R22E, S.L.B.&M. Uintah County, 1967 Brass Cap 1.0' High, Pile 0.7' High, Pile 0.7' High, Pile of Stones S89'35'30"W - 2671.87' (Meas.) of Stones S89'31'51"W - 2676.12' (Meas.) Utah. of Stones BASIS OF ELEVATION SPOT ELEVATION LOCATED AT THE NORTHWEST CORNER OF SECTION 18, T6S, R22E, S.L.B.&M. TAKEN FROM THE RASMUSSEN HOLLOW, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4738 FEET. 2622. BASIS OF BEARINGS BASIS OF BEARINGS IS A G.P.S. OBSERVATION. 10, NORTH HORSESHOE #7-20-6-22 2198 Elev. Ungraded Ground = 5135' 1967 Brass Cap 0.3' High, Pile of Stones 1967 Brass Cap 1.2' High, Pile of Stones 2618.65 SCALE CERTIFICATE 2619. THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIFLD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE S00.20,12"E BEST OF MY KNOWLEDGE AND BELLET REGISTERED LAND SURVEYOR REGISTRATION NO. 161319 1967 Brass Cap STATE OF UTAH 1967 Brass Cap 0.5' High, Pile 0.4' High, Pile of Stones of Stones UINTAH ENGINEERING & LAND SURVEYING N89'17'31"E - 2685.17' (Meas.) 1967 Brass Cap N89°20'39"E - 2690.06' (Meas.) Flush with Ground. 85 SOUTH 200 EAST - VERNAL, UTAH 84078 Two Stones (435) 789-1017 (AUTONOMOUS NAD 83) DATE SURVEYED: DATE DRAWN: LEGEND: SCALE LATITUDE = $40^{\circ}17^{\circ}07.90^{\circ}$ (40.285528) 1" = 1000'11-5-05 11-9-05 LONGITUDE = $109^{27}53.48$ " (109.464856) REFERENCES = 90° SYMBOL PARTY (AUTONOMOUS NAD 27) J.W. N.O. E.C.O. G.L.O. PLAT = PROPOSED WELL HEAD. LATITUDE = $40^{\circ}17'08.03''$ (40.285564) FILE WEATHER LONGITUDE = $109^{\circ}27^{\circ}51.00^{\circ}$ (109.464167) = SECTION CORNERS LOCATED. COOL THE HOUSTON EXPLORATION COMPANY

April 14, 2006

William A Ryan, Agent 290 S 800 E Vernal, UT 84078 435-789-0968

Utah Division of Oil, Gas and Mining 1549 West North Temple, Suite 1210 Salt Lake City, UT 84114

RE: The Houston Exploration Company North Horseshoe 7-20-6-22 Sec. 20, T6S, R22E

Dear Sir or Madam,

The Houston Exploration Company respectfully requests a spacing exception for the subject location. The well has been moved from the center of the forty-acre spacing.

The well is located at 2403' FNL & 2198' FEL, which has changed from the proposed location at 1980' FNL & 1980' FEL.

The location was moved due to topography and drainage considerations. Please see the attached maps.

The Houston Exploration Company is the only lease owner within a 460' radius.

If you have additional questions, please feel free to call.

Sincerely,

William A Ryan

#### Ten Point Plan

#### The Houston Exploration Company

#### North Horseshoe 7-20-6-22

#### Surface Location SW 1/4 NE 1/4, Section 20, T. 6S., R. 22E.

## 1. Surface Formation Duchesne

#### 2. Estimated Formation Tops and Datum:

Formation	Depth	<u>Datum</u>
Duchesne	Surface	5,132'G.L.
Uintah	1,800'	+3,332'
Green River	3,800'	+1,332'
Wasatch	6,900'	-1,768'
Mesaverde	10,000'	-4,868'
TD	10,500'	-5,368'

A 11" hole will be drilled to 2,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest.

#### 3. Producing Formation Depth:

Formation objective includes the Green River, Wasatch, Mesaverde and its submembers.

Off set well information

Permitted/Drilled:

North Horseshoe 1-20-6-22 North Horseshoe 3-20-6-22 North Horseshoe 5-20-6-22 North Horseshoe 10-20-6-22 North Horseshoe 11-20-6-22 North Horseshoe 13-20-6-22 North Horseshoe 15-19-6-22

#### 4. Proposed Casing:

Hole	Casing			Coupling	Casing	
Size	Size	Weight/FT	Grade	& Tread	<u>Depth</u>	New/Used
11	8 5/8	36#	J-55	STC	2000	NEW
7 7/8	4 1/2	11.6#	N-80	LTC	T.D.	NEW

**Cement Program:** 

Cement volume = Gauge hole + 25%

## The Surface Casing will be cemented from 2000' to the Surface as follows:

Casing Size	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement <u>Weight</u>
Conductor: 0'- 40'	,			
14"	Premium "5"	35 sks. +/-	1.18ft³/sk	15.6 ppg
Lead: 0'- 1,300'				
2000.				
8 5/8"	Premium "5"	87 sks. +/-	3.82ft <sup>3</sup> /sk	11.0 ppg
Tail: 1,300'- 2,000	)'			
8 5/8"	Premium "5"	151 sks. +/-	1.2ft³/sk	15.6 ppg

NOTE:

Cement top for tail = Trona + 200'

#### Production casing will be cemented to 200' inside surface casing or higher as follows:

Casing <u>Size</u>	Cement Type	Cement Amounts	Cement <u>Yield</u>	Cement Weight
Lead: 1.800'- 6.700'				
4 ½"	Premium "5"	421 sks +/-	3.82ft³/sk	11.0 ppg
Tail: 6.700'- TD				
4 ½"	Premium "5"	656 sks +/-	1.18ft³/sk	15.6 ppg
NOTE:  Cement top for tail =	- Wasatch + 200'			

Cement top for tail = Wasatch +200

#### 5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 8 5/8" surface casing. The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 6. Mud Program:

Interval	Mud weight <a href="https://gal.">lbs./gal.</a>	Viscosity Sec./OT.	Fluid Loss MI/30 Mins.	Mud Type
0-2000 2000-T.D.	Air/Clear Water 8.4-12.0	30	No Control 8-10	Water/Gel Water/Gel

#### 7. Auxiliary Equipment

Upper Kelly cock, full opening stabbing valve, 2 ½" choke manifold and pit level indicator.

#### 8. Testing, Coring, Sampling and Logging:

a)	Test:	None are anticipated.
b)	Coring:	There is the possibility of sidewall coring.

c) Sampling: Every 10' from 2000' to T.D.

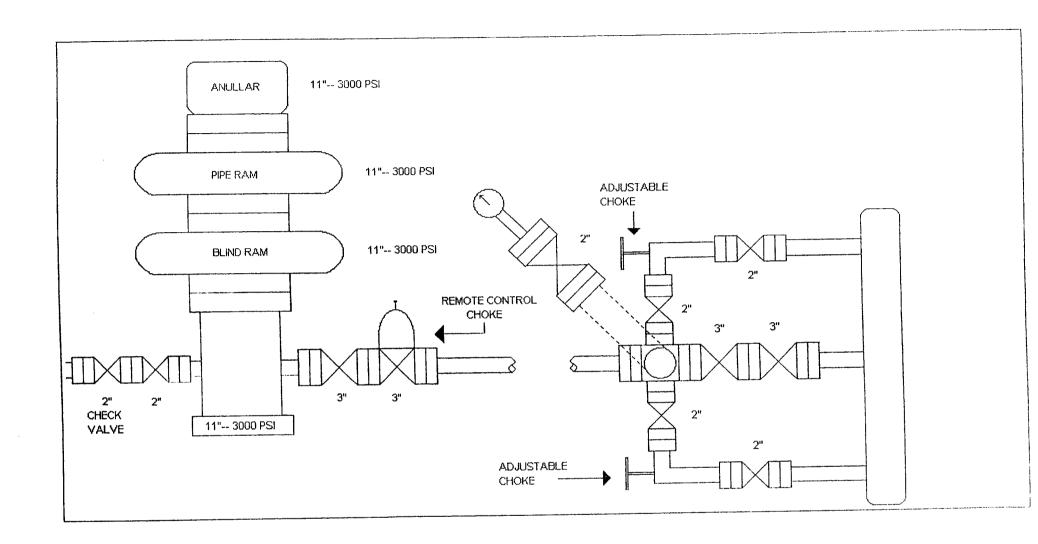
d) Logging: Type Interval
DLL/SFL W/GR and SP T.D. to Surf. Csg
FDC/CNL W/GR and CAL T.D. to Surf. Csg

#### 9. Abnormalities (including sour gas):

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 10. Drilling Schedule:

The anticipated starting date is 1/01/2007. Duration of operations is expected to be 30 days.



## TYPICAL PRODUCTION LAYOUT Soles Line Dump Lines Separator, Dehydrator & Meter 2 300 bbl Tanks & Berm Insulated 2" Flow line & 1" Trace WELL HEAD PIT AREA

# THE HOUSTON EXPLORATION COMPANY 13 POINT SURFACE USE PLAN FOR WELL

**NORTH HORSESHOE 7-20-6-22** 

LOCATED IN SW 1/4 NE 1/4

**SECTION 20, T.6S, R22E, S.L.B.&M.** 

**UINTAH COUNTY, UTAH** 

**LEASE NUMBER: UTU-77526** 

SURFACE OWNERSHIP: FEDERAL

#### 1. Existing Roads:

The Houston Exploration Co. North Horseshoe 7-20-6-22 Section 20, T6S, R 22E

Starting in Vernal, Utah: Proceed in an easterly, then southerly direction from Vernal, Utah along U.S. Highway 40 approximately 3.9 miles to the junction of State Highway 45; exit right and proceed in a southerly, then southeasterly direction approximately 9.2 miles on State Highway 45 to the junction of this road and an existing road to the southeast; turn left and proceed in a southeasterly direction approximately 0.2 miles to the beginning of the proposed access for the #11-20-6-22 to the southeast; follow road flags in a southeasterly direction approximately 0.4 miles to the beginning of the proposed access to the east; follow road flags in an easterly, then northeasterly direction approximately 0.1 miles to the proposed location.

## Total distance from Vernal, Utah to the proposed well location is approximately 13.8 miles.

All existing roads to the proposed location are State of Utah, BLM maintained or County Class D roads. Please see the attached map for additional details.

#### 2 Planned access road

The proposed access road will be approximately 528' of new

construction on lease. The road will be graded once per year minimum and maintained.

A) Approximate length	528 ft
B) Right of Way width	30 ft
C) Running surface	18 ft
D) Surface material	Native soil
E) Maximum grade	8%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road Flagged	Yes
K) Access road surface	ownership
it) Heecos I out burner	Federal
L) All new construction	n on lease
11) This new constitution	No
3.6. D. 1.	None

M) Pipe line crossing None

Please see the attached location plat for additional details.

## An off lease right-of-way will be required for approximately 225'.

All surface disturbances for the road and location will be within the lease boundary.

#### 3. Location of existing wells

The following wells are located within a one-mile radius of the location site.

a one-mile radius of the rocation	on one.
A) Producing well	None
B) Water well	None
C) Abandoned well	
HBF #42-29	
D) Temp. abandoned well	None
E) Disposal well	None
F) Drilling /Permitted well	
North Horseshoe 1-20-6-	22
North Horseshoe 3-20-6-	22
North Horseshoe 11-20-6	5-22

North Horseshoe 13-20-6-22

North Horseshoe 5-20-6-22 North Horseshoe 10-20-6-22 North Horseshoe 15-19-6-22

G) Shut in wells

None

H) Injection well

None

I) Monitoring or observation well None

Please see the attached map for additional details.

4. Location of tank batteries, production facilities and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a Carlsbad Canyon color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required paint color is Carlsbad Canvon.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

The operator will adhere to all site security guidelines and regulation identified in 43 CFR 3126.7.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have

prior written approval form the authorized officer. If the well is capable of economic production a surface gas line will be required.

Approximately 562' of 3" steel buried gas gathering line would be constructed on Federal Lands. The line will tie into a proposed pipeline in Section 20, T6S, R22E. The pipeline would be buried to the southwest of the location and parallel to the access road. A temporary construction width of 60' will be required for one week and a permanent width of 15' for the life of the well.

An off lease right-of-way will be required for approximately 110'.

Please see the attached location diagrams for pipeline location.

The gas meter run will be located within 500' of the wellhead. The gas line will be buried or anchored down from the wellhead to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer will be provided with a date and time for the initial meter calibration and all future meterproving schedules. A copy of the meter calibration report will be submitted to the BLM's Vernal District office and State of Utah.

Division of Oil, Gas, and Mining. All measurement facilities will conform to API (American Petroleum Institute) and AGA (American Gas Association) standards for gas and liquid hydrocarbon measurement.

5. Location and type of water supply

Water for drilling and cementing will come from The Green River Permit #T-76073.

6. Source of construction materials

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravel or pit lining material will be obtained from private resources.

- 7. Methods for handling waste disposal
  - A) Pit construction and liners:

The reserve pit will be approximately 12 ft. deep and most of the depth shall be below the surface of the existing ground Please see the attached plat for details.

The reserve pit will be lined.

The reserve pit will be used to store water for drilling. A semiclosed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

#### B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90-day period an application for approval for permanent disposal method and location will be submitted to the authorized officer. Evaporation may be used instead of trucking to facilitate closing and reclamation of the reserve pit. A pumping system would be used for evaporation.

#### C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized landfill location.

#### D) Sewage:

A portable chemical toilet will be supplied for human waste.

#### E) Site clean-up:

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

#### 8. Ancillary facilities

There are no ancillary facilities planned at this time and none are foreseen for the future.

#### 9. Well-site layout

Location dimensions are as follows:

A) Pad length	345 ft.
B) Pad width	245 ft.
C) Pit depth	12 ft.
D) Pit length	150 ft.
E) Pit width	75 ft.
F) Max cut	14.5 ft.
G) Max fill	18.3 ft.
H) Total cut yds.	9,620 cu yds
I) Pit location	West end
J) Top soil location	

Top son location

South end

#### K) Access road location

Southwest end

#### L) Flare Pit

Corner C

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire.

Total height of the fence shall be at leas 42 inches.

- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

#### 10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The topsoil removed and piled will amount to approximately 1,670 cubic yards of material. Topsoil will be stockpiled in one distinct pile. Placement of the topsoil is noted on the attached location plat. The topsoil pile from the location will be seeded as soon as the soil is stock piled with the seed mix listed. When all drilling and completion activities have been completed and the pit back-filled the topsoil from the pit area will be spread on the pit area. The pit area will be seeded when the soil has been spread. The unused portion of the location (the area outside the dead men) will be recontoured.

The dirt contractor will be provided with an approved copy of the

surface use plan prior to construction activities.

Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is back-filled

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rainfall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert the run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

#### A) Seeding dates:

Seed will be spread when topsoil is stock piled and when reclamation work is performed.

The seed mix and quantity list will be used whether the seed is broadcast or drilled.

#### B) Interim Seed Mix

4#/acre Indian Rice Grass 4#/acre Crested Wheat Grass 4#/acre Needle & Thread Grass

#### 11. Surface ownership:

Access road	Federal
Location	Federal
Pipe line	Federal

#### 12. Other information:

#### A) Vegetation

The vegetation coverage is slight. The majority of the existing vegetation consists of non-native species. Rabbit brush, bitter brush, and Indian Rice grass and Sagebrush are also found on the location.

#### B) Dwellings:

There are no dwellings or other facilities within a one-mile radius of the location.

#### C) Archeology:

The location has been surveyed. A copy of that survey will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations, which would affect such sites, will be suspended and the discovery reported promptly to the surface management agency.

#### D) Water:

The nearest water is the Green River located 9,000' +/- to the Southwest.

#### E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

#### F) Notification:

- a) Location Construction
  At least forty eight (48)
  hours prior to
  construction of location
  and access roads.
- b) Location completion prior to moving on the drilling rig.
- c) Spud notice At least twenty-four (24) hours prior to spudding the well.
- d) Casing string and cementing

At least twenty-four (24) hours prior to running casing and cementing all casing strings.

- e) BOP and related equipment tests At least twenty-four (24) hours prior to initial pressure tests.
- f) First production notice Within five (5) business days after the new well begins, or production resumes after well has been off production for more than 90 days.

#### G) Flare pit:

The flare pit will be located in **corner C** of the reserve pit out side the pit fences and 100 feet from the bore hole on the east side of the location. All fluids will be removed from the pit within 48 hours of occurrence.

## 13. Lessees or Operator's representative and certification

#### A) Representative

William A. Ryan Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

Office 435-789-0968 Fax 435-789-0970 Cellular 435-828-0968

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws,

regulations, onshore oil and gas orders, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

This drilling permit will be valid for a period of one year from the date of approval.

After permit termination, a new application will be filed for approval for any future operations.

#### B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be preformed by The Houston **Exploration Company and its** contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Onsite Dates: 2/28/06

#### **Self Certification Statement**

The following self-certification statement is provided per Federal requirements dated June 15, 1988.

Please be advised that The Houston Exploration Company is considered to be the operator of the following well:

North Horseshoe #7-20-6-22 Section 20, T. 6S, R. 22E SW ¼ of the NE ¼ Lease UTU-77526 Uintah County, Utah

The Houston Exploration Company is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond UTU-104155044 provides statewide bond coverage on all Federal Lands.

Date 4 - 17 - 06

William A. Ryan, Agent Rocky Mountain Consulting

#### Statement of use of Hazardous Materials

No chemical(s) from the EPA's consolidated list of Chemicals subject to Reporting under Title III of the Superfund Amendments and Reauthorization, Act (SARA) of 1986 will be used, produced, transported, stored, disposed, or associated with the proposed action. No extremely hazardous substances, as defined in 40 cfr 355, will be used, produced, stored, transported, disposed, or associated with the proposed action.

If you require additional information please contact:

William A Ryan Agent for The Houston Exploration Company Rocky Mountain Consulting 290 S 800 E Vernal, UT 84078

435-789-0968 Office 435-828-0968 Cell 435-789-0970 Fax

## THE HOUSTON EXPLORATION COMPANY

NORTH HORSESHOE #7-20-6-22

LOCATED IN UINTAH COUNTY, UTAH **SECTION 20, T6S, R22E, S.L.B.&M.** 

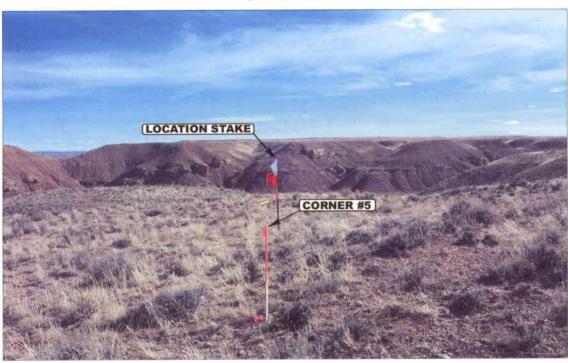


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

**CAMERA ANGLE: SOUTHEASTERLY** 



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

**CAMERA ANGLE: EASTERLY** 



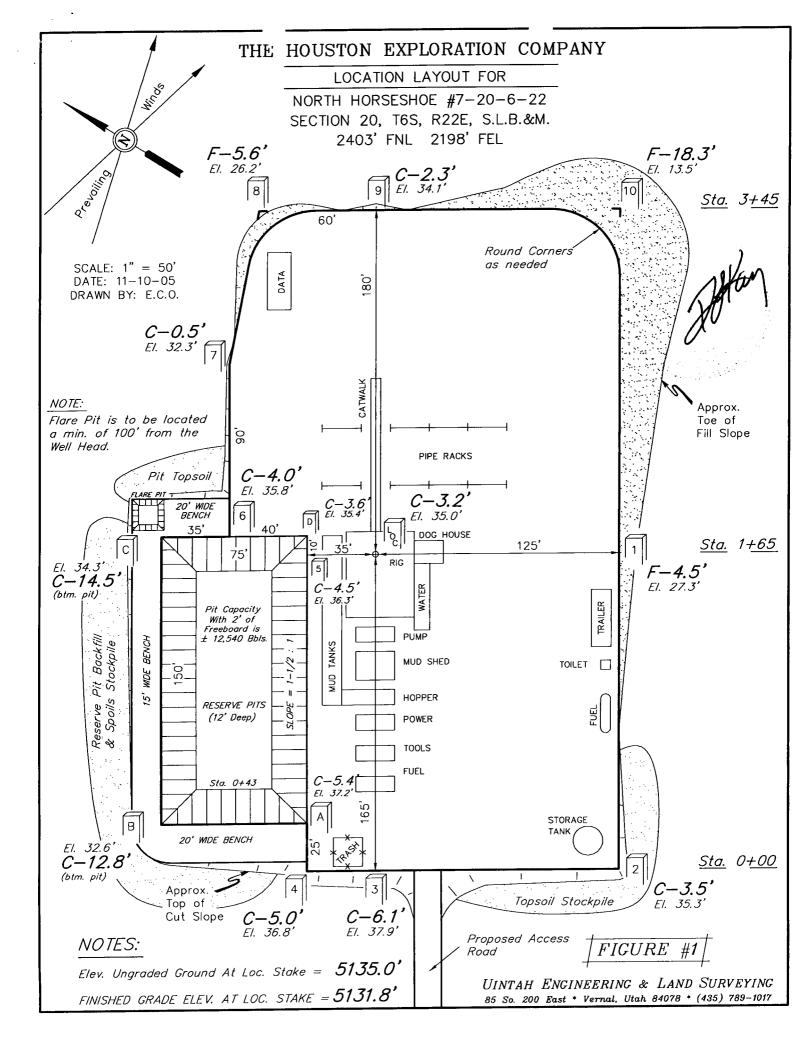
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

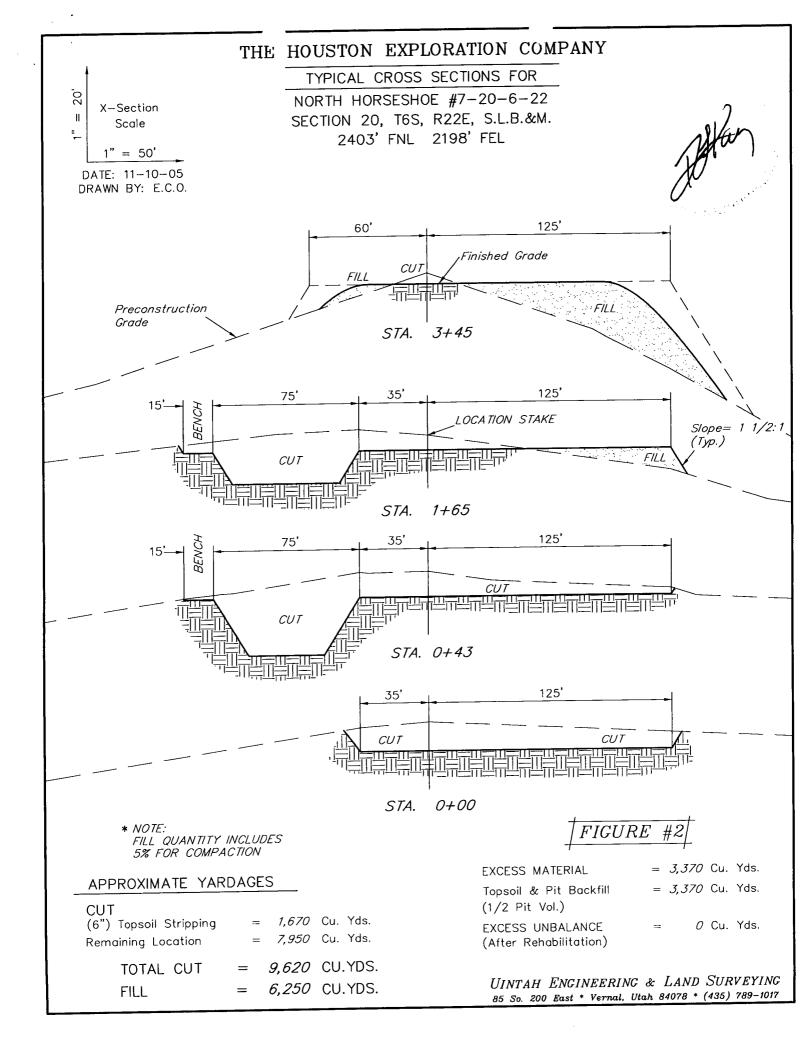
LOCATION PHOTOS

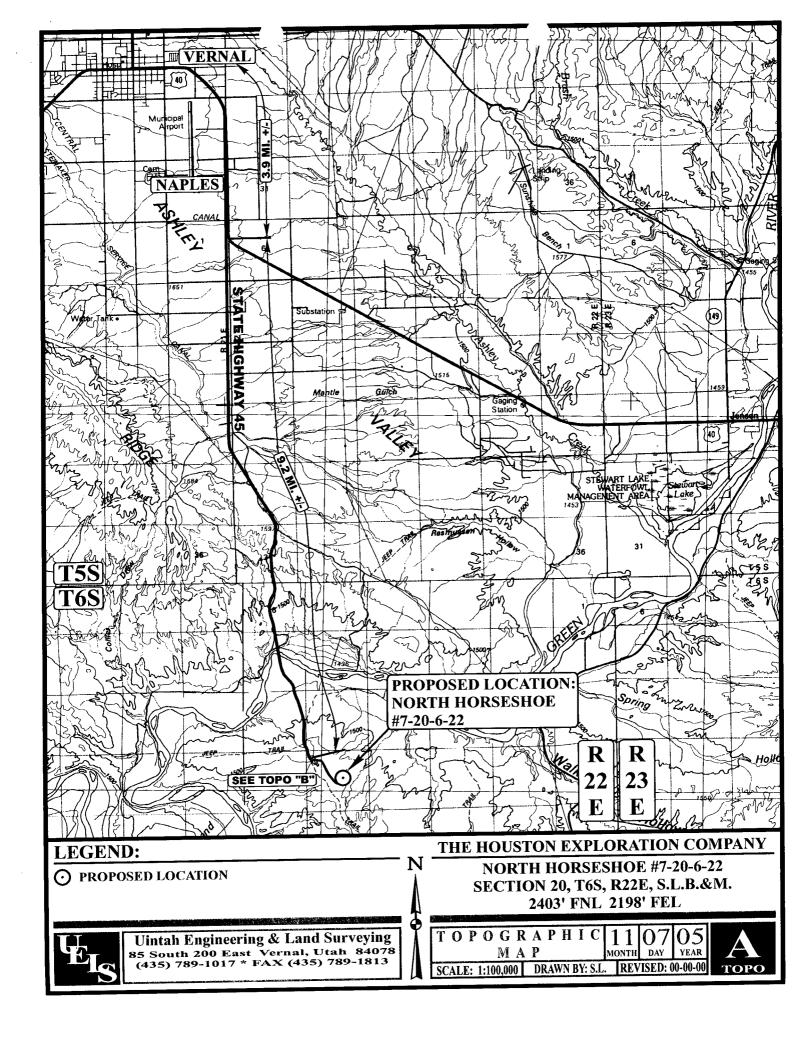
MONTH DAY YEAR

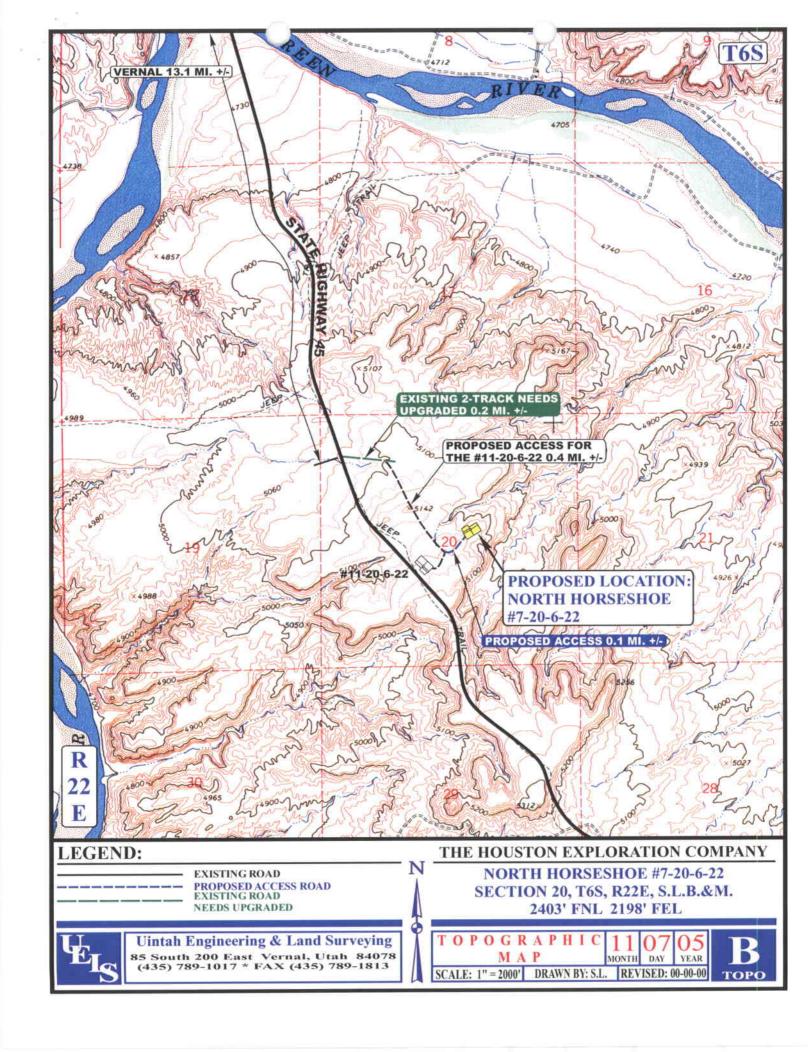
РНОТО

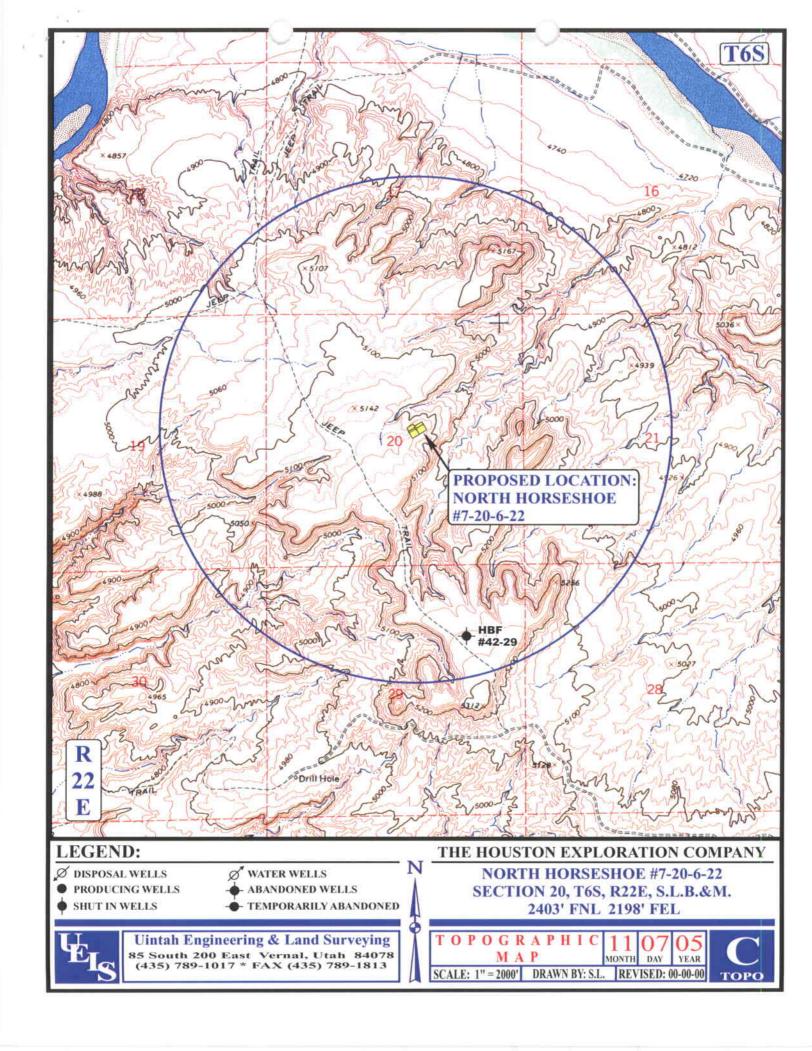
TAKEN BY: B.H. | DRAWN BY: S.L. | REVISED: 00-00-00

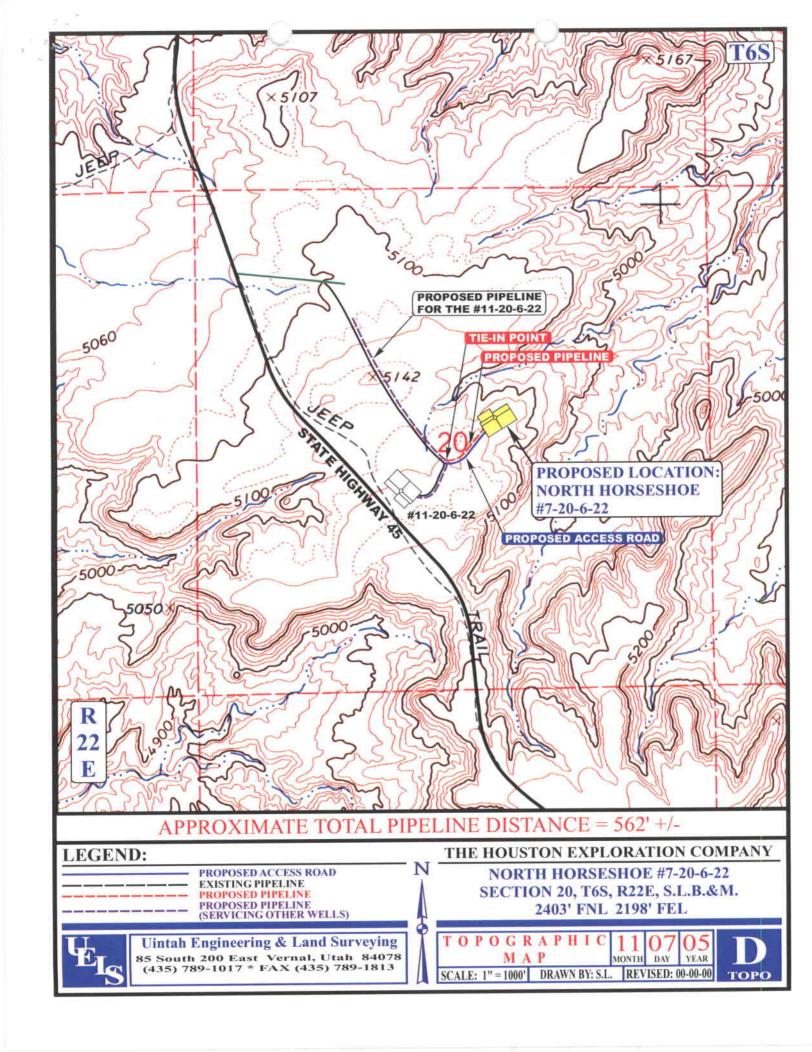












## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/19/2006	API NO. ASSIGNED: 43-047-38022
WELL NAME: N HORSESHOE 7-20-6-22 OPERATOR: HOUSTON EXPLORATION CO, ( N2525 ) CONTACT: BILL RYAN	PHONE NUMBER: 435-789-0968
PROPOSED LOCATION:  SWNE 20 060S 220E  SURFACE: 2403 FNL 2198 FEL	INSPECT LOCATN BY: / / Tech Review Initials Date
BOTTOM: 2403 FNL 2198 FEL COUNTY: UINTAH	Engineering Geology
LATITUDE: 40.28558 LONGITUDE: -109.4644  UTM SURF EASTINGS: 630537 NORTHINGS: 44603  FIELD NAME: WILDCAT ( 1	Surface
LEASE TYPE: 1 - Federal  LEASE NUMBER: UTU-77526  SURFACE OWNER: 1 - Federal	PROPOSED FORMATION: MVRD COALBED METHANE WELL? NO
Plat  Bond: Fed[1] Ind[] Sta[] Fee[]  (No. UTU-104155044 )  Potash (Y/N)  Oil Shale 190-5 (B) or 190-3 or 190-13  Water Permit  (No. T-76073 )  NOR RDCC Review (Y/N)  (Date: )  Alfr Fee Surf Agreement (Y/N)  Night Intent to Commingle (Y/N)	LOCATION AND SITING:  R649-2-3.  Unit: R649-3-2. General
COMMENTS:	
STIPULATIONS: 1- reden Oxprovil	

N HORSESHOE 16-18-6-22 (\*) **T6S R22E** N HORSESHOE 3-20-6-22 N HORSESHOE 5-20-6-22 N HORSESHOE N HORSESHOE 11-20-6-22 (\*) N HORSESHOE B-20-6-22 (\*) OPERATOR: THE HOUSTON EXPL CO (N2525) SEC: 20 T. 6S R. 22E FIELD: WILDCAT (001) COUNTY: UINTAH Wells Status SPACING: R649-3-.3/ EXCEPTION LOCATION Utah Oil Gas and Mining **GAS INJECTION** GAS STORAGE LOCATION ABANDONED NEW LOCATION Unit Status
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PENDING Field Status PLUGGED & ABANDONED ■ ABANDONED PRODUCING GAS PRODUCING OIL SHUT-IN GAS ACTIVE COMBINED SHUT-IN OIL ■ INACTIVE TEMP. ABANDONED 🗖 PI OIL PROPOSED **TEST WELL PP GAS** STORAGE WATER INJECTION PP GEOTHERML TERMINATED PP OIL WATER SUPPLY PREPARED BY: DIANA WHITNEY SECONDARY WATER DISPOSAL DATE: 24-APRIL-2006 **TERMINATED** DRILLING



#### State of Utah

#### Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA Division Director JON M. HUNTSMAN, JR.

GARY R. HERBERT Lieutenant Governor

April 25, 2006

Houston Exploration Company 1100 Louisiana, Suite 2000 Houston, TX 77002

Re: North Horseshoe 7-20-6-22 Well, 2403' FNL, 2198' FEL, SW NE, Sec. 20, T. 6 South, R. 22 East, Uintah County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38022.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc: Uintah County Assessor

Bureau of Land Management, Vernal District Office

Operator:	Houston Exploration Company					
Well Name & Number	North F	Horseshoe 7-20-6-22				
API Number:	43-047-	-38022				
Lease:	UTU-7	7526				
Location: <u>SW NE</u>	Sec20_	<b>T.</b> <u>6 South</u>	<b>R.</b> 22 East			

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dan Jarvis at (801) 538-5338

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

### Ten Point Plan

**The Houston Exploration Company** 

North Horseshoe 7-20-6-22

Surface Location SW 1/4 NE 1/4,

Section 20, T. 6S., R. 22E.

43.047.38022

## 1. Surface Formation Uintah

#### 2. Estimated Formation Tops and Datum:

Formation		Depth	Datum
Uintah		Surface	5,132'G.R.
Green River		3,800'	1,332'
Birds Nest	Water	4,000'	1,132'
Wasatch	Oil/Gas	6,900'	-1,768'
Mesaverde	Oil/Gas	10,000'	-4,868'
TD		10,500'	-5,368'

A 17 ½" hole will be drilled to 4,000' +/-. The hole depth will depend on the depth that the Birds Nest Zone is encountered. The hole will be drilled 400' beyond the top of the Birds Nest. All fresh water and oil and gas baring zones shall be protected by casing and cement program.

#### 3. Producing Formation Depth:

Formation objective includes the Wasatch, Mesaverde and their sub-members.

#### 4. Proposed Casing:

Hole	Casing			Coupling	Casing	
<u>Size</u>	Size	Weight/FT	<u>Grade</u>	<u>&amp; Tread</u>	<u>Depth</u>	New/Used
30	26	68.75#	A430		40'	NEW
24	20	94#	H-40	ST&C	350'	NEW
17 ½	13 3/8	72#	N-80	ST&C	4,000'	NEW
12 1/4	9 5/8	53.5#	N-80	LT&C	6,900'	NEW
7 7/8	4 1/2	11.6#	P-110	LT&C	9,400'	NEW
7 7/8	4 1/2	13.5#	P-110	LT&C	10,500	NEW

#### **Cement Program:**

#### Conductor casing #1 will be cemented as follows from 0'-40':

Note: Cement Volume = Gauge hole + 50%

	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement Weight
Lead:	26	Portland CMT Class IA 4 Integral Air-entraining		1.15ft³/sk	5	15.8 ppg

Conductor	casing #2	will be	cemented	as follows	from 0'- 3:	50':

Cem	ent volum	e = Gauge hole + 50	%			
	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement <u>Weight</u>
Lead						
	20	Portland CMT Class "G" 2% Calcium Chloride 1/4#/sk Flocele	247 sks +/-	1.5ft³/sk	5	15.8 ppg

#### The Surface Casing will be cemented as follows from 0'- 4,000':

Ceme	ent volume	= Gauge hole +	25%			
	Casing	Cement	Cement	Cement	Water	Cement
	<u>Size</u>	Type	<u>Amounts</u>	<u>Yield</u>	<u>Mix</u>	Weight
Lead:						
	13 3/8"	Premium "5" 16% Gel 10#/sk Gilsonite 3% Salt 3#/sk GB3	855 sks. +/-	3.82ft <sup>3</sup> /sk	23	11.0 ppg
Tail:						
	13 3/8"	Class "G" 2% Calcium Chlo 0.25#/sk Flocele	294 sks. +/- ride	1.18ft³/sk	5	15.6 ppg
Top J	ob:					
-		Class "G" 4% Calcium Chlo 0.25#sk Flocele	10-200 sks. +/-	1.15ft <sup>3</sup> /sk	5	15.8 ppg

#### <u>Intermediate casing will be cemented as follows from 3,800'- 6,900':</u> Cement volume = Gauge hole + 25%

Ceme	Cement volume – Gauge note + 25%									
	Casing Size	Cement <u>Type</u>	Cement Amounts	Cement <u>Yield</u>	Water <u>Mix</u>	Cement <u>Weight</u>				
Lead:	9 5/8"	50/50 POZ'G	955 sks +/-	1.25ft³/sk	5.26	14.35 ppg				
		5% Salt (BWOW)								

5% Salt (BWOW) 0.6% HALAD 322 0.25#/sk Flowcele 0.2% Super CBL 2% Micro Bond

#### Production casing will be cemented as follows from 6,700'- 10,500:

Note: Lead should be 200' above the Wasatch.

**Cement volume = Gauge hole + 25%** 

Casing	Casing	Cement	Cement	Cement	Water	Cement
<u>Depth</u>	<u>Size</u>	<u>Type</u>	<u>Amounts</u>	<u>Yield</u>	<u>Mix</u>	Weight
<b>y</b> 1						
Lead:						
	4 1/2	PREM.AG300	634 sks +/-	1.73ft³/sk	8.17	13.5 ppg
		50/50 POZ "G" CM	Γ			
		2% Gel				
		0.4% Halad 344				
		0.25% HR-12				
		0.2% CFR-3				
		5#/sk Sillicalite				
		20% SSA-1				
		0.25#/sk Flowcele				
		0.2% Super CBL				

#### 5. BOP and Pressure Containment Data:

A 5000-psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 13 3/8" surface casing. An upper kelly cock to the required pressure rating with a handle available shall be employed.

The BOP system including the casing will be pressure tested to minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

#### 6. Mud Program:

<u>Interval</u>	Mud weight lbs./gal.	Viscosity Sec./OT.	Fluid Loss MI/30 Mins.	Mud Type
0-2000 4,000-T.D.	Air/Clear Water 8.4-12.0	30-45	No Control 8-10	Water/Gel LSND vater based mud system

**Note:** Mud weights may exceed 12.0 due to solids increasing at or near T.D. Increased weights are not required to control formation pressure. Operator will have on location sufficient mud and weight material to increase mud weight to 12.0 at any time while drilling the subject well. Visual mud monitoring incorporating pit level indicators shall be used.

#### 7. Testing, Coring, Sampling and Logging:

a) DST: None are anticipated.

b) Coring: There is the possibility of sidewall coring.

c) Mud Sampling: Every 10' from 4,000' to T.D.

d) Logging: Type Interval

DLL/SFL W/GR and SP T.D. to Surf. Csg FDC/CNL W/GR and CAL T.D. to Surf. Csg

#### 8. Abnormalities (including sour gas)

Anticipated bottom hole pressure will be less than 5000 psi. No abnormal pressures, temperatures or other hazards are anticipated. Other wells drilled in the area have not encountered over pressured zones or H2S.

#### 9. Other facets of the proposed operation:

Off set well information Abandoned Well: HBF 42-29

#### 10. Drilling Schedule:

The anticipated starting date is  $\underline{1/01/2007}$ . Duration of operations is expected to be 30 days.

#### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

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	DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-77526
SUNDRY	NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill no drill horizontal la	ew wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged w terals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL	GAS WELL 🗸 OTHER	8. WELL NAME and NUMBER: North Horseshoe 7-20-6-22
2. NAME OF OPERATOR: The Houston Exploration (	Company	9. API NUMBER: 4304738022
3. ADDRESS OF OPERATOR: 1100 Louisiana Suite 2000	Houston STATE TX 215 77002 PHONE NUMBER: (713) 830-6	10. FIELD AND POOL, OR WLDCAT: 8800 Undesignated
LOCATION OF WELL FOOTAGES AT SURFACE: 2403' I		соинту: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SWNE 20 6S 22E	STATE: UTAH
1. CHECK APP	ROPRIATE BOXES TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA
	TYPE OF ACTION    ACIDIZE	REPERFORATE CURRENT FORMATION  SIDETRACK TO REPAIR WELL  TEMPORARILY ABANDON  TUBING REPAIR  VENT OR FLARE  WATER DISPOSAL  WATER SHUT-OFF  OTHER: Extension  DRMATION  withs, volumes, etc.
	Approved by the Utah Division of Oil, Gas and Mining  Date:  By:	DEPERATOR AT LEGIS
NAME (PLEASE PRINT) William A	Ryan TITLE Agent  Marcon Date 4/11/200	7
This space for State use only)		

**RECEIVED** APR 1 3 2007



#### **Application for Permit to Drill Request for Permit Extension** Validation (this form should accompany the Sundry Notice requesting permit extension)

API: Well Name: Location:	4304738022 North Horseshoe 7-20 Section 20, Township	0-6-22 o 6 South, Range 22 East SWNE
<b>Company Per</b>	-	The Houston Exploration Company
above, hereby	verifies that the in	legal rights to drill on the property as permitted information as submitted in the previously nains valid and does not require revision.
Following is a verified.	checklist of some	items related to the application, which should be
•	rivate land, has the en updated? YesE	ne ownership changed, if so, has the surface □ No ☑
•		ne vicinity of the proposed well which would affect nts for this location? Yes□No☑
	•	r agreements put in place that could affect the roposed well? Yes□ No ☑
	•	o the access route including ownership, or right- roposed location? Yes⊡ No ☑
Has the appro	ved source of wat	ter for drilling changed? Yes□ No☑
	uire a change in pl	hanges to the surface location or access route lans from what was discussed at the onsite
Is bonding stil	I in place, which co	covers this proposed well? Yes ☑ No ☐
1) Itean	v le Tyon	4/11/2007
Signature		Date
Title: Agent		
Representing	The Houston Explo	oration Company
		RECE

#### Division of Oil, Gas and Mining

#### **OPERATOR CHANGE WORKSHEET**

ROUTING
1. DJJ
2. CDW

Change of Operator (	Well	Sold)
----------------------	------	-------

Change of Operator (Well Sold)		X - Operator Merger						
The operator of the well(s) listed below has chan	į		6/1/2007					
FROM: (Old Operator):		TO: ( New Or						
N2525 - The Houston Exploration Company		N6965-Forest Oil Corporation						
1100 Louisiana, Suite 2000		707 17th St, Suite 3600						
Houston, TX 77002	Denver, CO 80202							
Phone: 1-(713) 830-6800		Phone: 1 (303)						
CA No.		Unit:	012-1733					
WELL NAME	SEC TWN RNG	<del></del>	ENTITY	LEASE	WELL	WELL		
	SEC TWIN KING	ATTIO	NO	TYPE	TYPE	STATUS		
SEE ATTACHED LIST								
OPERATOR CHANGES DOCUMENT.	ATION							
Enter date after each listed item is completed								
1. (R649-8-10) Sundry or legal documentation wa	s received from the	FORMER one	rator on:	7/30/2007				
2. (R649-8-10) Sundry or legal documentation wa				7/30/2007	•			
3. The new company was checked on the <b>Departr</b>		-			. •	7/31/2007		
4a. Is the new operator registered in the State of U		Business Numb		571171-0143		7/31/2007		
4b. If <b>NO</b> , the operator was contacted contacted o		Dusiness Numb	C1.	3/11/1-0143				
5a. (R649-9-2)Waste Management Plan has been re		INI DI ACE						
		IN PLACE	ı					
5b. Inspections of LA PA state/fee well sites compl		***	ı					
5c. Reports current for Production/Disposition & S		YES	ı			•		
6. Federal and Indian Lease Wells: The BL			merger, na					
or operator change for all wells listed on Federa	al or Indian leases o	n:	BLM	. 7/31/2007	BIA	•		
7. Federal and Indian Units:								
The BLM or BIA has approved the successor				n/a				
8. Federal and Indian Communization Ag								
The BLM or BIA has approved the operator f				n/a				
9. Underground Injection Control ("UIC"	,	vision has appro			er of Au	thority to		
Inject, for the enhanced/secondary recovery un	it/project for the wa	iter disposal well	l(s) listed of	n:	n/a			
DATA ENTRY:						•		
1. Changes entered in the Oil and Gas Database		8/27/2007						
2. Changes have been entered on the Monthly Op	erator Change Sp	read Sheet on:	,	8/27/2007				
3. Bond information entered in RBDMS on:		8/27/2007						
4. Fee/State wells attached to bond in RBDMS on		8/27/2007						
5. Injection Projects to new operator in RBDMS o		<u>n/a</u>						
6. Receipt of Acceptance of Drilling Procedures for	or APD/New on:		7/30/2007					
BOND VERIFICATION:								
1. Federal well(s) covered by Bond Number:		6236351						
2. Indian well(s) covered by Bond Number:		n/a						
3a. (R649-3-1) The <b>NEW</b> operator of any fee well				6218963				
3b. The <b>FORMER</b> operator has requested a release	of liability from th	eir bond on:	not yet					
LEASE INTEREST OWNER NOTIFIC	ATION:							
4. (R649-2-10) The <b>FORMER</b> operator of the fee		acted and inform	ned by a lett	er from the D	ivision			
of their responsibility to notify all interest owner			8/1/2007	or nom are D	1101011			
COMMENTS:			3. 2.2007					

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

	DIVISION OF OIL, GAS AND M	INING		1	SE DESIGNATION AND SERIAL NUMBER:  Attached List
SUNDRY	NOTICES AND REPORT	S ON WEL	.LS	6. IF IN	NDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill r	new wells, significantly deepen existing wells below ou aterals. Use APPLICATION FOR PERMIT TO DRILL	rrent bottom-hole dep form for such proposi	oth, reenter plugged wells, or to	7. UNI	T or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL	GAS WELL OTHER				L NAME and NUMBER: Attached List
2. NAME OF OPERATOR:	N6965			9. API	NUMBER:
Forest Oil Corporation  3. ADDRESS OF OPERATOR:	140165		PHONE NUMBER:	vario	DUS ELD AND POOL, OR WILDCAT:
	Y Denver, STATE CO ZIE	,80202	(303) 812-1755		
4. LOCATION OF WELL  FOOTAGES AT SURFACE: See a	tached list		- 11:43:41 - 183 - 184	001.11.13	
TOUTAGES AT SURFACE. GEG A		alan de destat de 1966. La composição de 1967 de 1968 de 1969	######################################	COUNT	
QTR/QTR, SECTION, TOWNSHIP, RAN	IGE, MERIDIAN:			STATE	: UTAH
11. CHECK APPI	ROPRIATE BOXES TO INDICAT	TE NATURE	OF NOTICE, REPO	RT, O	R OTHER DATA
TYPE OF SUBMISSION		Т	YPE OF ACTION		
NOTICE OF INTENT	ACIDIZE	DEEPEN			REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE			SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR  CHANGE TO PREVIOUS PLANS	☐ NEW CONS	STRUCTION		TEMPORARILY ABANDON TUBING REPAIR
	CHANGE TUBING	PLUG AND			VENT OR FLARE
SUBSEQUENT REPORT	CHANGE WELL NAME	PLUG BACI			WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTI	ON (START/RESUME)		WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMAT	TION OF WELL SITE	$\overline{Z}$	отнея: Change of Operator
	CONVERT WELL TYPE	RECOMPLE	ETE - DIFFERENT FORMATION		
document is attached To Forest Oil Corporation as approved operations conducted for the Please send all future corporation, 70 Corporation,	poration (N-6965). Forest merge he contract operated wells will connew operator, accepts all applications of the state of Utah bonding representations for the state of Utah bonding representations of t	ontinue to be able terms, continue to be the deserminate deserminates desermina	contract operated by conditions, stipulation scribed.  Inder Safeco bond #4 above listed address  2	y Endu s and i 621896	ring. restrictions concerning
NAME (PLEASE PRINT)  SIGNATURE  JOANN	. Hresko u C. Shesho	TITI	7 / -		ral Mgr Northern Division
(This space for State use only)	. A	Il wei	1/s with	AP.	D or New RECEIVED
APPROVED	8127107	stati	US		RECEIVED
(5/2000) Carlene 1	C				
Division of Oil, Gas	and Mining	ructions on Reverse S	aue)		JUL 3 0 2007
Earlene Russell, Eng	ineering Technician			ŗ	JIN UEUII CVO & MINIMO

wmp

DIN UE UII CVC & MINING

well name	sec	twp	rng	api	entity	lease	well	stat	flag
HORSESHOE BEND 16-33	33	<del>-</del> -		4304736214	Circley	Federal	OW	APD	Inug
HORSESHOE BEND 3-33	33			4304736215			ow	APD	
N HORSESHOE 7-16-6-21	16			4304737438		State	GW	APD	С
N HORSESHOE 9-16-6-21	16			4304737439		State	GW	APD	Č
N HORSESHOE 15-16-6-21	16			4304737440		State	GW	APD	C
N HORSESHOE 11-16-6-21	16			4304737441	<u> </u>	State	GW	APD	C
N HORSESHOE 1-16-6-21	16			4304737442		State	GW	APD	C
N HORSESHOE 13-2-6-21	02	_		4304737476	<u> </u>	State	GW	APD	C
N HORSESHOE 15-2-6-21	02			4304737477		State	GW	APD	C
GUSHER 2-2-6-19	02	<del></del>		4304737561	<del>                                     </del>	State	ow	APD	C
GUSHER 16-2-6-19	02	060S		4304737562		State	OW	APD	C
GUSHER 1-2-6-19	02			4304737563	1	State	ow	APD	C
GUSHER 3-2-6-19	02			4304737568	1	State	ow	APD	C
E COYOTE 6-2-8-25	02			4304737572	1	State	GW	APD	C
E COYOTE 3-2-8-25	02			4304737573	<del> </del>	State	GW	APD	C
E COYOTE 8-2-8-25	02			4304737574		State	GW	APD	C
N HORSESHOE 13-16-6-21	16			4304737575		State	GW	APD	C
E COYOTE 4-2-8-25	02			4304737882		State	GW	APD	C
E COYOTE 14-2-8-25	02			4304737883		State	GW	APD	C
E COYOTE 10-2-8-25	02			4304737884		State	GW	APD	C
E COYOTE 16-2-8-25	02			4304737885		State	GW	APD	C
E COYOTE 12-2-8-25	02			4304737886		State	GW	APD	C
N HORSESHOE 16-18-6-22	18			4304737887		Federal	GW	APD	C
N HORSESHOE 14-18-6-22	18			4304737888		Federal	GW	APD	C
N HORSESHOE 2-18-6-22	18			4304737889		Federal	GW	APD	C
N HORSESHOE 10-18-6-22	18	060S	220E	4304737890		Federal	GW	APD	С
N HORSESHOE 8-18-6-22	18	060S	220E	4304737891		Federal	GW	APD	С
N HORSESHOE 13-15-6-21	15	060S	210E	4304738013		Federal	GW	APD	C
N HORSESHOE 15-15-6-21	15	060S	210E	4304738014		Federal	GW	APD	С
N HORSESHOE 11-15-6-21	15	060S	210E	4304738015		Federal	GW	APD	С
N HORSESHOE 9-15-6-21	15	060S	210E	4304738016		Federal	GW	APD	С
N HORSESHOE 5-15-6-21	15	060S	210E	4304738017		Federal	GW	APD	C
N HORSESHOE 3-15-6-21	15	060S	210E	4304738018		Federal	GW	APD	С
N HORSESHOE 5-20-6-22	20	060S	220E	4304738019		Federal	GW	APD	C
N HORSESHOE 13-20-6-22	20	060S	220E	4304738020	<u> </u>	Federal	GW	APD	С
N HORSESHOE 3-20-6-22	20			4304738021		Federal	GW	APD	С
N HORSESHOE 7-20-6-22	20			4304738022		Federal	GW		С
N HORSESHOE 11-20-6-22	20			4304738023	ļ		GW		С
N HORSESHOE 2-12-6-21	12			4304738198		Federal			С
N HORSESHOE 14-12-6-21	12			4304738199		Federal			С
N HORSESHOE 10-12-6-21	12			4304738200		——		APD	C
N HORSESHOE 8-12-6-21	12			4304738201				APD	C
N HORSESHOE 16-13-6-21	13			4304738202	ļ			APD	С
N HORSESHOE 15-17-6-22	17			4304738203				APD	C
N HORSESHOE 5-19-6-22	19			4304738204	<u> </u>	Federal			С
N HORSESHOE 15-19-6-22	19			4304738205			GW	APD	C
N HORSESHOE 3-21-6-22	21			4304738206	<u> </u>			APD	C
N HORSESHOE 11-21-6-22	21			4304738207	<u> </u>	<del></del>	GW	APD	C
N HORSESHOE 15-21-6-22	21			4304738208	<u> </u>	Federal			C
N HORSESHOE 13-21-6-22	21			4304738209	<u> </u>			APD	C
N HORSESHOE 5-21-6-22	21			4304738210	<b> </b>			APD	C
N HORSESHOE 7-19-6-22	19			4304738271	<del> </del>	Federal		APD	С
N HORSESHOE 5-16-6-22	16	U60S	220E	4304738406		State	<u>IGM</u>	APD	<u></u>

11		T,	1			1		1	1
well_name	sec	twp	rng	api	entity	lease	well	-	flag
TWELVEMILE WASH 11-13-5-20	13			4304738437	<u> </u>	Federal		APD	C
TWELVEMILE WASH 1-15-5-20	15			4304738438		Federal		APD	C
N HORSESHOE 4-33-5-21	33			4304738439		Federal		APD	С
GUSHER 6-15-6-19	15			4304738440	!	Federal	GW	APD	C
HORSESHOE BEND W 9-34-6-20	34	060S	200E	4304738441		Federal	GW	APD	C
N HORSESHOE 16-12-6-21	12	060S	210E	4304738442		Federal	GW	APD	C
N WALKER HOLLOW 12-29-6-23	29	060S	230E	4304738443		Federal	GW	APD	C
N WALKER HOLLOW 10-30-6-23	30	060S	230E	4304738444		Federal	GW	APD	C
PELICAN LAKE 11-3-8-20	03	080S	200E	4304738445		Federal	GW	APD	C
PELICAN LAKE 8-4-8-20	04	080S	200E	4304738446		Federal	GW	APD	C
E COYOTE 10-3-8-25	03	080S	250E	4304738447		Federal	GW	APD	С
BORDER 10-9-8-25	09	080S	250E	4304738448		Federal	GW	APD	C
N WALKER HOLLOW 14-33-6-23	33	060S	230E	4304738455		Federal	GW	APD	C
SNAKE JOHN WASH 14-11-7-25	11	070S	250E	4304738456		Federal	GW	APD	С
SNAKE JOHN WASH 4-24-7-25	24	070S	250E	4304738457		Federal	GW	APD	С
SQUAW RIDGE 1-26-7-25	26	070S	250E	4304738458		Federal	GW	APD	С
SQUAW RIDGE 13-28-7-25	28	070S	250E	4304738459		Federal		APD	С
SQUAW RIDGE 16-30-7-25	30	070S	250E	4304738460		Federal		APD	С
SQUAW RIDGE 14-16-7-25	16	070S	250E	4304738461		State	GW	APD	C
GUSHER 13-11-5-19	11			4304738462		State		APD	C
N HORSESHOE 1-15-6-21	15			4304738831		Federal		APD	C
N HORSESHOE 16-9-6-22	09			4304739083		State	<u> </u>	APD	
N HORSESHOE 12-7-6-22	07			4304739084		State		APD	
N HORSESHOE 14-10-6-22	10			4304739085		State		APD	1
N HORSESHOE 2-15-6-22	15			4304739086		State		APD	H
N WALKER HOLLOW 12-32-6-23	32			4304739087		State	GW	APD	H
N WALKER HOLLOW 10-32-6-23	32			4304739088		State		APD	$\vdash$
N WALKER HOLLOW 16-32-6-23	32			4304739089		State		APD	$\vdash \vdash \vdash$
N WALKER HOLLOW 8-32-6-23	32			4304739090		State	<del> </del>	APD	$\vdash \vdash \vdash$
N WALKER HOLLOW 11-36-6-23	36			4304739091		State	GW	APD	╁
N WALKER HOLLOW 13-36-6-23	36			4304739092		State		APD	
N WALKER HOLLOW 14-32-6-23				4304739093	-	State		APD	
N WALKER HOLLOW 15-36-6-23	36			4304739094		State		APD	$\vdash$
N HORSESHOE 4-15-6-22	15			4304739095		State		APD	$\vdash \vdash \vdash$
N HORSESHOE 9-10-6-21	10			4304739284		Federal			С
N HORSESHOE 12-13-6-21	13			4304739285		Federal		APD	$\vdash$
N HORSESHOE 7-15-6-21	15			4304739286		Federal		APD	$\vdash$
N HORSESHOE 9-19-6-22	19			4304739287		Federal		APD	
N HORSESHOE 13-19-6-22	19			4304739287		Federal		APD	$\vdash\vdash\vdash$
N HORSESHOE 11-19-6-22	19			4304739288		Federal		APD	$\vdash\vdash\vdash$
SOUAW RIDGE 16-13-7-24	13			4304739289		Federal		APD	С
N HORSESHOE 16-7-6-22	07			4304739319		Federal		APD	C
SQUAW RIDGE 8-16-7-25				4304739320					
PAOV M MTOT 0-10-1-72	110	0/09	230E	4304/30024		State	W D	NEW	$\cup$

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

#### Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	N Horseshoe 7-20-6-22
API number:	4304738022
Location:	Qtr-Qtr: SWNE Section: 20 Township: 6S Range: 22E
Company that filed original application:	The Houston Exploration Company
Date original permit was issued:	04/25/2006
Company that permit was issued to:	The Houston Exploration Company

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<b>✓</b>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?		<b>√</b>
If so, has the surface agreement been updated?		
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		<b>✓</b>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. 6218963	<b>√</b>	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Tami Hofmann Title Regulatory Specialist	
Signature John Date 08/02/2007	
Representing (company name) Forest Oil Corporation	

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

## STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OU. CAS AND MINING

	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-77526				
SUNDRY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA				
Do not use this form for proposals to drill individual literature.	7. UNIT OF CA AGREEMENT NAME:				
1. TYPE OF WELL OIL WELL	8. WELL NAME and NUMBER: North Horseshoe 7-20-6-22				
2. NAME OF OPERATOR:			9. API NUMBER:		
Forest Oil Corporation			4304738022		
	Py Denver STATE CO ZIP	80202 PHONE NUMBER: (303) 812-1700	10. FIELD AND POOL, OR WILDCAT:  Exploratory		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2403'	FNL & 2198' FEL		county: <b>Uintah</b>		
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SWNE 20 6S 2	22E	STATE: UTAH		
11. CHECK APP	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REP	ORT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
✓ NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION		
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL		
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON		
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR		
П	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE		
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL		
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF		
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER: Extension		
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	V		
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all p	pertinent details including dates, depths, volu	mes, etc.		
The Operator respectfully	requests a one year approval ex	tension for the subject location.			
		•			
	Approved by th	۵			
Approved by the Utah Division of					
Oil, Gas and Mining					
	On, odo dra min	9			
	Date: 04-29-09	600			
	COPY SENT TO OPERATOR				
	By: Draded		Date: 5.1.2008		
		\	1/6		
	V	7	Initials: PS		
NAME (PLEASE PRINT) Ginger Bo	wden	TITLE Agent			
SIGNATURE Tungs	n Bonden	DATE 4/16/2008			
This space for State use only)					

This space for State use only

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APR 2 8 2008

#### Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

	4304738022	20 < 20	
Well Name: Location:	North Horseshoe 7-2	20-6-22 p 6 South  Range 22 East SWI	NF
<b>Company Per</b>	-	Forest Oil Corporation (Hou	
above, hereby	verifies that the	legal rights to drill on the information as submitted mains valid and does no	
Following is a overified.	checklist of some	e items related to the ap	plication, which should be
	rivate land, has tl en updated? Yes	he ownership changed, □No☑	if so, has the surface
		he vicinity of the propos nts for this location? Yes	ed well which would affect □ No ☑
Has there beer permitting or op	n any unit or othe peration of this p	er agreements put in pla roposed well? Yes⊟ No	ce that could affect the
		to the access route inclu proposed location? Yes[	ding ownership, or right- ⊒No⊠
Has the approv	ved source of wa	ter for drilling changed?	Yes□No☑
Have there bee which will requi evaluation? Ye	ire a change in p	changes to the surface lo lans from what was disc	ocation or access route cussed at the onsite
ls bonding still	in place, which c	covers this proposed well	ll? Yes ☑No □
Minas	Bowden		4/16/2008
Signature U	•		Date
Title: Agent		·	
Representing:	Forest Oil Corpora	tion	
			DECENT

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APR 2 8 2008



#### United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Green River District-Vernal Field Office 170 South 500 East Vernal, UT 84078 (435) 781-4400 Fax: (435) 781-4410

http://www.blm.gov/ut/st/en/fo/vernal/html



IN REPLY REFER TO: 3160 LLUTG01100

February 24, 2009

Charles A. Rasey Forest Oil Corporation 707 17<sup>th</sup> Street, Suite 3600 Denver, CO 80202

43 047 38022

Re: Notice of Expired Lease
Well No. North Horseshoe 7-20-6-22
SWNE, Sec. 20, T6S, R22E
Uintah County, Utah
Lease No. UTU-77526

North Horseshoe Bend Unit

Dear Mr. Rasey:

The Application for Permit to Drill (APD) the above-referenced well received in this office on April 18, 2006 is being returned unapproved. According to our records, Federal Lease UTU-77526 has expired by its own terms and conditions, effective September 30, 2008. In view of the foregoing, this office is returning the referenced unapproved Application for Permit to Drill due to the lease expiration.

Forest Oil Corporation has the right to a State Director review of this decision as per the procedures outlined in 43 CFR 3165.3. If you have any questions regarding this matter, please contact me at (435) 781-4440.

Sincerely,

derry Kenczka

Assistant Field Manager Lands & Minerals Resources

CC:

**UDOGM** 

Ginger Bowden, Paradigm Consulting, Inc.

RECEIVED
MAR 0 2 2009

DIV. OF OIL, GAS & MINING



Lieutenant Governor

## State of Utah

#### DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 18, 2009

Forest Oil Corporation 707 17<sup>th</sup> Street, Suite 3600 Denver, CO 80202

Re: APD Rescinded - N Horseshoe 7-20-6-22, Sec.20, T.6S, R.22E

Uintah County, Utah API No. 43-047-38022

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on April 25, 2006. On April 16, 2007 and April 29, 2008, the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 30, 2009.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc: Well File

Bureau of Land Management, Vernal

